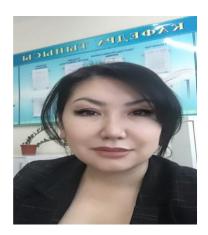
DEPARTMENT «MATHEMATICS AND INFORMATION TECHNOLOGY»



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EDUCATIONAL PROGRAMS, BACHELOR COURSE

6B06101 - Computer equipment and software

6B06102 –Information systems

6B01503 – Mathematics

6B01504 –Informatics

6B02102 - Design

TEACHING STAFF

	— 11			
$N_{\underline{0}}$	Fullname	Academictitle	Academic	Contactdetails
			degree	
1.	Mukhanova	Master of	senior lecturer	jamal.m86@mail.ru
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		sciences		
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				1
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12.	Usainova Gulzhamal	Master of Natural Sciences	senior lecturer	gulzhamal.u@mail.ru
13.	Yerkebayeva Saule	master of Pedagogical Sciences	senior lecturer	kafedra_it21@mail.ru
14.	Myrzanova Aliya	master of Pedagogical Sciences	senior lecturer	<u>alena02_02_84@mail.r</u> <u>u</u>
15.	Bakalbaeva Gulshat	Master of Natural Sciences	senior lecturer	<u>kampu 92 84@mail.r</u> <u>u</u>
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27.	Smadiarova Aiym	lecturer	kafedra_it21@mail.ru
28.	Bekishova Aigerim	lecturer	kafedra_it21@mail.ru

LISTS OF SCIENTIFIC PAPERS

№	Full name	Article titles	Country, conference title (journal, year) or authorship
1	2	3	4
1	Eskynieva Marzhan	Increasing the business creativity of students through Kazakh national ornaments	Republican scientific and practical conference "Science and youth of the 21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
		"Psychological effect of color scheme in the interior"	Khabarshinsky Bulletin is a scientific and educational magazine. No. 2 (24) 2022.
		"The role of design in human life"	Khabarshinsky Bulletin is a scientific and educational magazine. No. 2 (24) 2022.
		"Design is a type of artistic and creative activity"	A republican scientific and practical conference was organized on the topic "Science, education and technology: current problems of the 21st century." No. 2 (26) 2023 165 p.
		"Graphics tasilderi arkyly qorshagan ortany beineleu adisteri"	"Modern science: new approaches and current research" international scientific and practical conference held at Bolashak University in Kyzylorda. 04/18/2024 158 p.
2	Umbetov Umirbek	Information support for emergency response activities rescue service	Bulletin of Karaganda State Industrial University 1(36), 2022
		Physical control methods	Physical methods of control.: Textbook: Temirtau: KarIU.2022180 p.
		Interpolation models of atmospheric air movement for alerting personnel based on gsm	BREAKTHROUGH SCIENTIFIC RESEARCH AS AN ENGINE OF SCIENCE: Collection of articles following the results of the nternational Scientific and Practical Conference (Taganrog, May 21, 2023) Sterlitamak: AIR, 2023172 p.
		Intelligent expert automated system continuous control and monitoring	Journal "Technical Sciences and Technologies": Kyzylorda No. 1(1). 2023.
		Control systems on the base of TM6 in industry	Proceedings of the 31st International Business Information Management Association Conference, IBIMA 2018: Innovation Management and Education Excellence through Vision 2020, 2018, crp. 6566–6570
		Computer-Aided Design Systems of Decentralization on Basis of Trace Mode in Industry	Proceedings – 2019 International Russian Automation Conference, RusAutoCon 2019, 2019, 8867817
		Study of the innovations diffusion on the base of naming game mathematical model	Compusoft, 2020, 9(1), ctp. 3547–3551
		Automation design systems for mechanical engineering and device node design	ournal of Physics: Conference SeriesЭта ссылка отключена., 2020, 1515(3), 032061
		Optimization of tourist transportation	Journal of Theoretical and Applied Information , 2020, 10(19), ctp. 3032–3042

		solving prediction tasks of a railway station development	Journal of Theoretical and Applied Information , 2021, 99(3), ctp. 583–593
		Generalized method of situational decomposition and multifunctional intelligent control systems	Journal of Theoretical and Applied Information, 2023, 101(14), ctp. 5613–5619
3	Chertkova Elena	Automation of the pumping station (pumping station).	"Zamanaui gylym: sandyk transformation" atty Khalykaralyk student gylym-practitioner conference materials. Kyzylorda Bolashak University, April 11, 22
4	Serikbaeva Valentina Erzhanovna	"Innovative teaching methods - teaching mathematics at school as the basis for the implementation of interdisciplinary connections (project).	«Inno Fest Qyzylorda 2021» инновациялық идеялар фестивалі.
		Interdisciplinary connections in the training of future mathematics teachers	CURRENT PROBLEMS OF SCIENCE AND TECHNOLOGY Collection of scientific articles based on the materials of the XIII – International Scientific and Practical Conference Part 2 November 24, 2023, Ufa 2023
5	Kyanova Saule Baitureevna		Eastern-European Journal of Enterprise Technologies, 1(4 (127), 32–42. https://doi.org/10.15587/1729-4061.2024.299002
			Collection of materials of the International scientific and practical conference of students, undergraduates, doctoral students and young scientists "InnoTech Connect: Connecting ideas and technologies" of the University of Turan. – 2024 – Almaty: University of Turan. – P.166-168.
			Журнал IScience /Actual scientific research in the modern world.ISSUE 11(91), 2022 INTERNATIONAL SCIENCE JOURNAL. Стр.80-83
		Blockchain technology is in constant use.	BILIM-ALL magazine https://bilim-all.kz/article/21325
			IScience magazine "Current scientific research in the modern world" ISSUE 11(79) Part 9 November 2021 Pereyaslav, Ukraine. P.7-12
		for the project method in teaching mathematics at university	//Materials of the Third International Scientific and Practical Online Conference "Innovative Entrepreneurial Education in the Context of Improving the Quality of Life", University of Turan, Almaty, 2020, pp524-528
		Monitoring the technical condition of unique buildings	Proceedings of the international scientific conference "Modern scientific challenges and trends"// issue 10 (32) / Collection of Scientific Works/ Warsaw, Poland: Wydawnictwo Naukowe "iScience". 2020P.87-89. ISBN 978-83-949403-3-1

			// Materials of the International Scientific and Practical Conference "World Economy and Professional Education in New Geopolitical Conditions", dedicated to the 25th anniversary of Turan University. – Almaty, 2017. – pp. 175-178
			// Materials of the International Scientific and Practical Conference "Current Problems of Modern Science", dedicated to the 75th anniversary of the Honored Worker of the Republic of Kazakhstan, Doctor of Law, Professor Zhalairi O.Sh. and the 25th anniversary of the Eurasian Law Academy named after D.A. Kunaev. – Almaty, 2017. – pp. 223-228
		Innovations in the field of teaching and educational methods	//«Young Scientist" monthly scientific magazine. – Kazan, 2015. – No. 2(82). – P.528–531
		Pedagogical conditions for the formation of a culture of educational and research activities of university students	//Advances of modern natural science Journal of RAE, 2015. – No. 2. – P. 178-183
			Advances of modern natural science ISSN 1681-7494 "List" VAK IF RSCI = 0.831 https://natural-sciences.ru/ru/article/view?id=34725
		Ways to develop students' logical thinking based on teaching them the qualitative aspect of mathematics	//International Journal of Applied and Basic Research. – Scientific journal RAE, 2014. – No. 12. – P.445–448 Advances of modern natural science ISSN 1681-7494 "List" VAK IF RSCI = 0.831 https://natural-sciences.ru/ru/article/view?id=34631 https://s.natural-sciences.ru/pdf/2014/12-4/34631.pdf
		The bringing up student s creation is the main demand of our epoch	//"Young Scientist" monthly scientific magazine. – Kazan, 2014. – No. 1.2 (60.2) – P.51-53
		Formation of ecological culture of university students - an educational problem	//Materials of the international scientific conference «Purposes, tasks and values of education in modern conditions». – Prague, 2014. – C.18-21
6	BakalbaevaGulshat	Psychological development of older schoolchildren with cerebral palsy.	IV International Scientific Conference "Modern Science and Innovation", dedicated to the 20th anniversary of the university "Bolashak", Kyzylorda, Kazakhstan, 99-100 better aralygy;
		Logistics system software development.	70 years of Peace, Labor and Creation, International Scientific and Technical Conference dedicated to the 70th anniversary of the victory over Nazi Germany, Moscow-Kiev-Kyzylorda, 2015, 107-111 better aralygy;

		The place and importance of mathematics in the formation of professional competence.	IV International Scientific and Practical Conference "Management of innovation processes in the context of modernization of education and science" in Dusseldorf (Germany), 2022
		There is an urgent need to develop the IT industry in Kazakhstan problems	Bolashak University. Messenger. Kyzylorda, 2022.
		International scientific and practical conference on the topic "Development of highly active cathodes to improve the characteristics of electrochemical devices" // "Development of science and innovation in the education system: trends and prospects"	April 17-18, 2023, branch of the Kyzylorda Open University "Bolashak".
		Creation of an information system for assigning social state assistance.	International student scientific and practical conference "Digital Transformation". Bolashak University. Khabarshi, 2022
		Production of solid oxide fuel cells based on Bimevox electrolyte.	Third international scientific conference "Modern mathematics: problems and applications", dedicated to the 85th anniversary of Korkyt Ata University. Kyzylorda, 2022.
		Mobile application based on Android for traveling around Kazakhstan	Republican scientific and practical conference of students on the topic "Science and youth of the 21st century", structural department "Bolashak" of Kyzylorda Open University, 2023.
		Perceptron of a multilayer neural network	Republican scientific and practical conference "Science and youth of the 21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
7	Ibadulla Sabit	Variational Genetic Programming for Optimal Control System Synthesis of Mobile Robots./Preprintsof the 11th IFACSymposiumon Robot Control.	Salvador, BA, Brazil, August26-28,2015.P.113 118.(SCOPUS)
8	Usainova Gulzhamal	The importance of e-learning in the modern educational environment \\ VIII International Scientific and Practical Conference "Innovative management and technology in the era of globalization"	Бирмингем (Великобритания) -6-8января 2021г5стр.
		Types of new technologies in education and ways of their effective use. IV International scientific and practical Conference "Management of innovation processes in the context of modernization of education and science"	г.Дюссельдорф, 2022.

		The importance of political advertising on the Internet \\VIII International Scientific Conference "Modern Science and Innovation", Research Institute "Bolashak"	г.Кызылорда,2021г. №16(358)
		Creation of wireless local networks.	Bolashak University. Messenger. Continue A.N. 2022.
		Organization of distance learning (E-LEARNING) in universities. "Modern Science: Quantitative International student scientific and practical conference "Transformation".	Kyzylorda University "Bolashak", 2022
		Model of digital culture of future teachers in the context of digitalization of education.	Third international scientific conference "Modern mathematics: problems and applications", dedicated to the 85th anniversary of Korkyt Ata University. Kyzylorda, 2022.
		The need for professional development of future teachers of Stem learning technology	Third international scientific conference "Modern mathematics: problems and applications", dedicated to the 85th anniversary of Korkyt Ata University. Kyzylorda, 2022.
		Theoretical justification for organizing distance learning technology in the field of digital education	International scientific and practical conference "Kazakhstan in the modern world order: current challenges and development prospects." West Kazakhstan University named after M. Otemisov, 2022
		Teaching mathematics in the Stem program	International scientific and practical conference "Current problems of development of modern education". Kostanay Regional University named after Akhmet Baitursynov, 2023
		The role of mathematics in interdisciplinary STEM education at school	Kazakh National Pedagogical University named after Abay, Khabarshi Series "Physical and Mathematical Sciences" (VAK), VOLUME 82 No. 2 (2023), "Methods of teaching mathematics."
		Problems of improving the professional training of future mathematics teachers in the context of digital education	Belarusian State Pedagogical University named after Maxim Tank (Minsk, Belarus). International scientific and practical conference PHYSICS AND MATHEMATICS EDUCATION: TRADITIONS, INNOVATIONS, PROSPECTS Minsk, October 26–27, 2023
		Problems of improving professional training of future digital education specialists	Republican scientific and practical conference "Science and youth of the 21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
9	Myrzanova Aliya	Use of new technologies in education. "SCIENCE OF THE XXI CENTURY" EDUCATION" collection of scientific articles.	Kyzylorda University "Bolashak", 2021
		Features of teaching schoolchildren programming in the Scratch environment	Republican scientific and practical conference "Modern scientific research: current problems, achievements and innovations" 10/07/2022

		3D modeling methods in Blender	Republican scientific and practical conference "Modern scientific
			research: current problems, achievements and innovations"
			10/07/2022
		Features of web technologies used in the educational process	Republican scientific and practical conference "Science and youth of the
			21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
		Development of the Creative Potentiol of Future Teachers	JET international Journal of Emerging Technologies in Learning, 2023
		Based on Smart Education	(БД SCOPUS)
12	Shamsudinova Gulsairan	CLOUD TECHNOLOGIES "NEW DIRECTION IN THE	April 17-18, 2023, branch of the Kyzylorda Open University "Bolashak".
		COMPUTER INDUSTRY"	
		Python programming environment	Republican scientific and practical conference "Science and youth of the
			21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
		"Teaching methods of the department of mathematical modeling	
		in high school"	21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
		Digital Kazakhstan – Digital Future	International scientific and practical conference "Development of modern
			science and innovation in the education system: trends and prospects."
			April 17-18, 2023, branch of the Kyzylorda Open University "Bolashak".
13	Mukhanova Zhamal	Fifth-generation 5G mobile communication	XVI International Scientific Conference of Students and Youth
		technology: opportunities andrisks.	"GYLYMZHANEBILIM-2021".
			collection of reports. // April 12, 2021, Nur-Sultan.
		«INTERNET OF THINGS»: WHAT IS IT?	XII International Scientific and Practical Conference. GLOBAL SCIENCE
		REALITY OR PERPECTIVE?	AND INNOVATIOND 2021:
			CENTRALSIA. No. 1 (12). February 2021.
		Creation of an information system for assigning social state	International student scientific and practical conference "Digital
		assistance. Modern Science:	Transformation". Bolashak University.
			Khabarshi, 2022
		International scientific and practical conference	April 17-18, 2023, branch of the Kyzylorda Open University "Bolashak".
		"CRYPTOGRAPHIC INFORMATION PROTECTION	
		DEVICES ON MOBILE DEVICES" // "Development of	
		science and innovation in the education system: trends and	
		prospects"	
		The influence of plastic deformation on the formation of	Republican scientific and practical conference "Modern scientific
		radiation defects in alkali halide crystals	research: current problems, achievements and innovations." 10/07/2022
		Devices for cryptographic information protection on mobile	International scientific and practical conference "Development of
		devices	modern science and innovation in the education system: trends and
			prospects." April 17-18, 2023, branch of the Kyzylorda Open
			University "Bolashak".
		Cognitive value of heuristic models of artificial intelligence	Republican scientific and practical conference "Science and youth of
			the 21st century". December 8-9, 2023, Bolashak University, Kyzylorda.
			Contents lists available at ScienceDirect Heliyon, Heliyon 10 (2024) e39618
		Thermoelectric properties of superionic Li _{0.11} Cu _{1.89} S	Contents has available at ScienceDirect Henyon, Henyon 10 (2024) 639018
1.	Vanagami Anan Dagirih adama	Compound On the need for specialists to study mathematics	VII International Scientific and Practical Conference "Science and
14	Kenesary Anar Begimbaykyzy	1	education in the modern world: challenges of the 21st century", Nur-Sultan,
		programmer-developer	education in the modern world, chancinges of the 21st century, Nur-Sultan,

			Kazan 2021121 page
		Theoretical analysis of psychological preparation for the subject	«Collection of scientific articles of the International Scientific and Practical
		Olympiad	Conference "Trends and Future of Development of Humanitarian
			Education" Almaty: Kazakh National Pedagogical University named after
			Abay, 2021 456 pp.
		From the experience of preparing students for subject competitions	Proceedings of the international scientific and practical online conference on
		in computer science	the topic "Modern information technologies and computer modeling of
			systems." June 8, 2021 – Kyzylorda: KU named after Korkyt Ata, 2021. 477-
			p.
		Mathematical modeling in the educational process.	'Innovative Processes Management in the Context of Eduction and Science
			Modernization". Materials of the IV International Scientific-Practical
			Conference. In two volumes. Volune II – Dusseldorf, Germany, Regional
			Academy of Management, 2022-432 p
		The place and importance of mathematics in the formation of	'Innovative Processes Management in the Context of Eduction and Science
		professional competence.	Modernization". Materials of the IV International Scientific-Practical
			Conference. In two volumes. Volune II – Dusseldorf, Germany, Regional
			Academy of Management, 2022-432 p
		Digital tools in teaching mathematics.	XII International Scientific and Practical Conference "SCIENCE AND
		Review and outlook	EDUCATION IN THE MODERN WORLD: CHALLENGES OF THE XXI
			CENTURY" kabyldanda.
		Using numerical solutions in teaching mathematicsy	3rd International Conference "Taiman Readings" "Modern Mathematics:
			Problems and Applications", dedicated to the 85th anniversary of Ata Korkyt
			Kyzylorda University, November 25, 2022.
		Application of mathematical constructions as a problem of	(He was sent to participate in the conference during an internship at the
		preparing students for programming Olympiads	Plekhonov Russian University of Economics)
15	Dayyrbek Nurdaulet Madibekuly	1	Collection of works of the International Scientific and Practical. conference
		for students of educational institutions	"Current problems of regional economic development", dedicated to the 70th
			anniversary. honorary prof. KU named after Korkyt Ata, Ph.D. Nauryzbaeva
			A.Zh. from 04/09/2024
		efficiency of work on low-code and no-code platforms	Printing house of the Kazakh Agrotechnical Research University named
			after. S. Seifullina, (March 17, 2023): Sat. material. International scientific -
			practical conference - Astana, 2023 372 p.
		Development of a mobile application course for the educational	Publishing house of NJSC "Karaganda University named after. acad. E.A.
		set lego Mindstorms ev3	Buketova", 2023 PDF file, 12.6 MB (359 pp.).

INFORMATION ON THE PARTICIPATION OF STUDENTS IN THE CONFERENCE

Nº	Full name	Subjects of proposed articles or materials	Name of participating student	In what country, in what city, in what month was it held?
1	Aimahanova Ainur	Mechanisms of formation of	Ш.Бекжан	Modern science: Materials of the International Student
		alkali halide crystals in a field	Мат-20 оқу тобы	Scientific and Practical Conference "Digital Transformation".
		of elastic deformation.		April 11, 2022

		Equipment for recording the absorption characteristics of alkali halide crystals	А.А.Али ИС-21 оқу тобы	Republican scientific and practical conference "Modern scientific research: current problems, achievements and innovations" 10/07/2022
2	BakalbaevaGulshat	Current problems in the development of the IT industry in Kazakhstan	Әліпбаев А. ВТиПО-20	«Болашак» университеті. Хабаршы, 2022 жыл
3	Usainova Gulzhamal	Organization of distance learning in universities (ELECTRONIC LEARNING)	Бақытжанов Е.Р. ИС-20	Modern science: Materials of the International Student Scientific and Practical Conference "Digital Transformation". April 11, 2022
4	Aimbetova Maria Tuleyovna	How to solve basic math problems in the Maple software package	Сансызбай А Мат-20 оқу тобы	Modern science: Materials of the International Student Scientific and Practical Conference "Digital Transformation". April 11, 2022
5	Shamsudinova Gulsairan	Formation of mathematical concepts based on interdisciplinary connections	Алданов Б.Б. Мат-19 оқу тобы	It was published at the republican scientific and practical conference "Science and Youth of the 21st Century", held in the Bolashak structural unit of the Kyzylorda Open University (April 24-25, 2023).
		Digital Kazakhstan - Digital future	Серікбай О.Ж. ИС-19 оқу тобы	Republican scientific and practical conference "Modern scientific research: current problems, achievements and innovations" 10/07/2022
6	Eskynieva Marzhan	History of Graphic Design: From Cave Painting to the Digital Age	студенті Киікбаева Құралай	"Young researchers: science, technology and technology" of the Republican Scientific and Practical Conference of Students, held at Bolashak University in Kyzylorda on April 12, 2024.
		Development of design thinking of future costume designers in drawing classes.	Д-20 оқу тобының студенті Қарақожа Мадияр	Republican scientific and practical conference "Science and youth of the 21st century". April 24-25, 2023

Education alandmethodicalwork

The department maintains scientific and practical connections with higher educational institutions and training centers:

- -Taraz State University named after M.H. Dulati
- Transtelecom JSC
- "GRAND master" programming school;
- -Training center "Gibrat";
- -Kazakhstan Institute of Standardization and Certification;

- -Ozat School Institution
- -KREATIVE.kz LLP
- IP "Ernur" advertising agency

Educational work

- Culturalandcreative:participationinartcircles,theformationofaesthetictaste,thedevelopmentofstudentamateurart;
- Civil-patriotic: instilling socio-political literacy, preventing the spread of destructive political ideas among young people, tolerant, respectful and careful attitude to the traditions and culture, art and religion of the peoples living in multinational Kazakhstan; ensuring support for state policy;
- Moral and spiritual education for students, understanding the place and role of religion in society;
- Legal: prevention of delinquency and crime among youth;
- Physical education: development of mass sports, participation in amateur sports competitions, organization of sports activities for students;
- -Social: explanation of the principles of social partnership, formation and development of the volunteer student movement.

Material and technical base

- 503A-auditorium "Applied Mathematics",
- 505A-laboratory classroom "Applied Physics"
- 501 A-laboratory audience "Artificial intelligence and robotics",
- 509 A-laboratory audience "Information technologies and Web design",
- 508 A-laboratory auditorium "Computersystem and network",
- 507A-laboratory auditorium "SecurityLab",
- 305B-laboratory "Fundamentals of drawing and engineering graphics",
- 501B-laboratory of "Computer geometry and graphics",
- 501C-laboratory "Computer technologies",
- 502C-laboratory "Organization of computer networks".